

Clean Version of the Claims

1. (Amended) A method of reducing a quantization distortion created by quantization of a speech signal by a sample-by-sample quantizer, the speech signal including a plurality of frames, the method comprising:

detecting that one frame of the plurality of frames was previously quantized;

determining a quantization level for each of a plurality of samples of the one frame;

estimating an expected quantization distortion for each of the plurality of samples based on the quantization level of each of the plurality of samples;

summing up the expected quantized distortion of each of the plurality of samples to generate a summed quantization distortion; and

removing the summed quantization distortion from the frame.

2. (Amended) The method of claim 1, wherein the determining includes using quantization indices to determine the quantization levels.

3. (Amended) The method of claim 2, wherein the quantization indices are obtained by analyzing the frame to determine a type of the sample-by-sample quantizer and requantizing the frame.

7. (Amended) The method of claim 1, wherein the removing is performed in the frequency domain.

8. (Amended) The method of claim 1, wherein the removing is performed in the time domain.